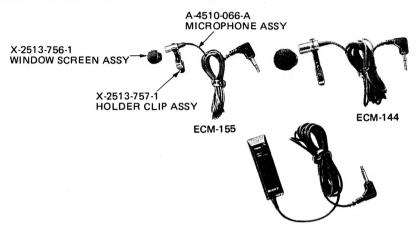
ECM-144/155

SERVICE MANUAL



US Model Canadian Model AEP Model UK Model E Model

Battery box is supplied with ECM-144 and ECM-155.

SPECIFICATIONS

Type: Electret condenser microphone

Battery: Alkaline-manganese battery IEC

Designation LR44

Dimensions: Microphone ϕ 5.6 x 17.7 mm (ECM-155)

 $\phi 8.5 \times 17.5 \text{ mm (ECM-144)}$

Battery box

16 x 12.5 x 52.5 mm (w/h/d)

Weight: Microphone Approx. 8 g (ECM-155)

Approx. 15.5 g (ECM-144)

Battery box

Approx. 22 g (incl. battery)

Microphone cable: Microphone 1.2 m Battery box

1.2 m

Frequency response: 50 - 15,000 Hz

Directivity: Omni-directional

Output impedance: 2.7 k $\Omega \pm 20\%$, unbalanced

Output level

(deviation ±3 dB): Open circuit voltage*1 -65 dB

 $(0.56 \text{ mV})^{*1} \text{ 0 dB} = 1 \text{ V/1 } \mu \text{bar,}$

1,000 Hz

Effective output level*2 -55.3 dBm*2 OdBm =

1 mW/10 µbar 1,000 Hz

Signal-to-noise ratio: Power requirements:

More than 38 dB (1,000 Hz, 1 μbar) Normal operating voltage: 1.5 V

Minimum operating voltage: 0.9 V Battery life: Approx. 400 hours

with Sony alkalinemanganese battery A76

Maximum sound

pressure input level:

More than 110dB SPL (at 1,000 Hz, 1% distortion)

Temperature range: 0°C to 60°C for operation

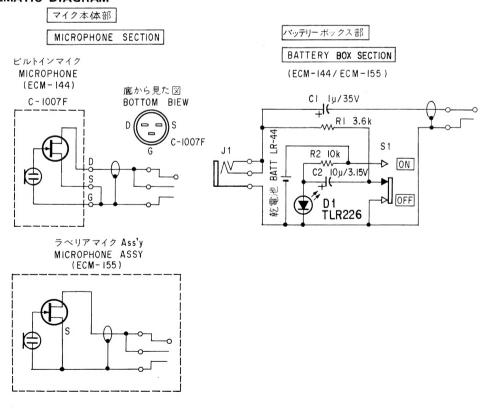


ELECTRET CONDENSER MICROPHONE SONY.

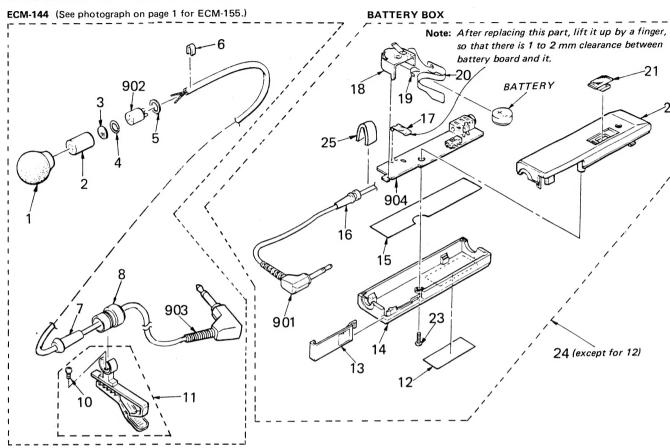


1. MOUNTING DIAGRAM L型ミニプラグ バッテリーボックス部 L-SHAPED MINI PLUG **BATTERY BOX SECTION** 【バッテリー 基板】 BATTERY BOARD] 46 R2 C 1 ~~~ o#6 J1 \\\ S 1 ON - OFF BATT 乾電池 LR-44 MINUS TERMINAL BOARD ASSY PLUS TERMINAL マイナス端子板 ASSY プラス端子

2. SCHEMATIC DIAGRAM



3. EXPLODED VIEW AND PARTS LIST



ELECTRICAL PARTS

No.	Part No.	Description	Remarks
1 2 3 4	X-2523-603-0 2-536-801-11	(ECM-144)CASE, MICROPHONE	
3	2-523-656-00		
4 5	*2-523-677-00 2-536-803-01		
3	2 330 603 01	(ECH 144)STOFFER	
6	2-523-606-00	(ECM-144)CLAMP, CORD	
7	2-522-050-11	(ECM-144)BUSHING	
	2-536-802-11		
	7-627-551-18		
11	X-2523-621-1	(ECM-144)CLIP ASSY, HOLDER	
12	2-523-682-01	(ECM-144)LABEL, MODEL NUMBER	
	2-538-606-01	(ECM-155)LABEL, MODEL NUMBER	
	2-538-605-01	LID, BATTERY CASE	
	2-538-614-01		
15	2-538-607-01	SHEET, INSULATING	
16	2-284-602-11 2-533-604-00	BUSHING	
1/	2-533-604-00	TERMINAL, PLUS	MATAULC
18	X-2513-755-1	(ECM-144)TERMINAL BOARD ASSY,	WI NO 2
19	2-533-615-02	SHEET, INSULATING	
20	2-533-608-00	BELT	
	2-538-612-01	KNOB, SWITCH	
	2-538-613-01		
23	7-685-104-29	SCREW +P 2X6 TYPE2 SLIT	
24	A-4521-028-A	CASE ASSY	
25	2-523-606-00	CLAMP, CORD	
2.0	2 323 000 00	OLAMI, OORD	

Ref.No.	Part No.	Description					
901 902 903 904	8-814-223-00	CORD, MICROPHONE (2.2 DIA.) (ECM-144)MICROPHONE C-1007F (ECM-144)CORD, MICROPHONE (2.2 DIA.) PC BOARD, BATTERY					
C1 C2	1-131-347-00 1-131-389-00	TANTALUM TANTALUM	1MF 10MF		20% 20%	35V 3.15V	
D1	8-719-812-26	DIODE TLR226					
J1	1-507-950-41	JACK (SMALL	TYPE)				
R1 R2	1-247-844-00 1-249-429-11	CARBON CARBON	3.6K 10K	5% 5%	1/6W 1/6W		
S1	1-553-977-00	SWITCH, SLIDE	Ē				

ACCESSORY & PACKING MATERIAL

2-599-281-11 MANUAL, INSTRUCTION

NOTE:

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.